

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Peter Lind, Linda S. Wood, Ronald
Hiebsch, Valerie Ruff, Eleni Lindberg, Luis
A. Parodi, Gabriel Vogeli

Serial No.: Not Yet Assigned**Group Art Unit:** Not Yet Assigned**Filing Date:** Herewith**Examiner:** Not Yet Assigned**For: NOVEL G PROTEIN COUPLED RECEPTORS****BOX SEQUENCE**

Assistant Commissioner for Patents
Washington DC 20231

**STATEMENT TO SUPPORT FILING AND SUBMISSION IN ACCORDANCE
WITH 37 CFR §§ 1.821 THROUGH 1.825**

- ☒ I hereby state, in accordance with the requirements of 37 C.F.R. §1.821(f), that the contents of the paper and computer readable copies of the Sequence Listing, submitted in accordance with 37 CFR §1.821(c) and (e), respectively are the same.
- ☐ I hereby state that the submission filed in accordance with 37 CFR §1.821(g) does not include new matter.
- ☐ I hereby state that the submission filed in accordance with 37 CFR §1.821(h) does not include new matter or go beyond the disclosure in the international application as filed.
- ☐ I hereby state that the amendments, made in accordance with 37 CFR §1.825(a), included in the substitute sheet(s) of the Sequence Listing are supported in the application, as filed, at pages _____. I hereby state that the substitute sheet(s) of the Sequence Listing does (do) not include new matter.
- ☐ I hereby state that the substitute copy of the computer readable form, submitted in accordance with 37 CFR §1.825(b), is the same as the amended Sequence Listing.

008221 E2E05/60



I hereby state that the substitute copy of the computer readable form, submitted in accordance with 37 CFR §1.825(d), contains identical data to that originally filed.

Date: 12/28/2000

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SEQUENCE LISTING

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 Wood, Linda S.
 Hiebsch, Ronald
 Ruff, Valerie
 Lindberg, Eleni
 Parodi, Luis A.
 Vogeli, Gabriel

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<151> 2000-02-23

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Variable	Mean	SD	Min	Max
Age at baseline (years)	55.2	10.5	35	75
Age at follow-up (years)	60.1	10.8	40	80
Gender (male/female)	55/45			
Education (years)	12.5	2.5	8	16
Marital status (married/divorced/widowed)	70/20/10			
Income (USD/month)	1,200	300	600	2,400
Smoking status (current/former/never)	30/40/30			
Alcohol consumption (g/day)	15	20	0	60
Physical activity (hours/week)	2.5	2.0	0	10
Diabetes (yes/no)	10/90			
Hypertension (yes/no)	40/60			
Cholesterol (mg/dL)	180	40	120	240
Blood pressure (mmHg)	130/80	15/10	110/60	150/100
Weight (kg)	75	15	50	100
Height (cm)	170	10	150	190
Body mass index (kg/m ²)	25.5	4.0	18	35
Glucose (mg/dL)	95	15	70	120
Hemoglobin A1c (%)	5.5	0.5	4.5	6.5
Creatinine (mg/dL)	1.0	0.2	0.8	1.2
Estimated glomerular filtration rate (mL/min/1.73m ²)	100	20	60	140
Urine albumin (mg/day)	10	20	0	50
Proteinuria (yes/no)	10/90			
Cardiovascular disease (yes/no)	30/70			
Stroke (yes/no)	5/95			
Myocardial infarction (yes/no)	10/90			
Angina pectoris (yes/no)	20/80			
Peripheral vascular disease (yes/no)	10/90			
Heart failure (yes/no)	10/90			
Arrhythmia (yes/no)	10/90			
Coronary artery disease (yes/no)	20/80			
Carotid artery disease (yes/no)	10/90			
Abdominal aortic aneurysm (yes/no)	5/95			
Chronic kidney disease (yes/no)	10/90			
End-stage renal disease (yes/no)	5/95			
Transplantation (yes/no)	5/95			
Survival (years)	10.5	5.0	0	20

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Variable	Mean	SD	Min	Max
Age	34.5	10.2	18	65
Gender	0.5	0.5	0	1
Marital status	0.6	0.5	0	1
Education	12.5	1.5	9	16
Income	15.2	5.8	5	35
Occupation	1.2	0.8	0	3
Health status	2.1	0.9	1	4
Life satisfaction	3.8	1.2	1	5
Stress level	2.5	1.0	1	4
Work-life balance	3.2	1.1	1	5
Family support	4.1	1.3	2	5
Community involvement	2.8	1.0	1	4
Personal growth	3.5	1.2	1	5
Financial stability	3.0	1.1	1	4
Healthcare access	4.3	1.4	2	5
Education quality	3.7	1.3	1	5
Employment opportunities	3.1	1.2	1	4
Infrastructure development	4.0	1.1	2	5
Environmental quality	3.4	1.0	1	4
Social services	4.2	1.2	2	5
Public safety	3.9	1.1	2	4
Government efficiency	3.6	1.0	1	4
Corruption levels	2.9	0.9	1	4
Political participation	3.3	1.1	1	4
Media freedom	3.8	1.2	1	4
Human rights	3.5	1.1	1	4
Gender equality	3.7	1.0	1	4
Minority rights	3.2	1.1	1	4
Religious freedom	3.9	1.2	1	4
Cultural heritage	3.6	1.1	1	4
Language rights	3.4	1.0	1	4
Indigenous rights	3.1	1.1	1	4
Disability rights	3.3	1.0	1	4
Sexual orientation rights	3.0	1.1	1	4
Transgender rights	2.8	1.0	1	4
Interfaith dialogue	3.5	1.1	1	4
Religious tolerance	3.7	1.2	1	4
Secularism	3.2	1.0	1	4
Freedom of expression	3.8	1.1	1	4
Press freedom	3.6	1.0	1	4
Academic freedom	3.4	1.1	1	4
Artistic freedom	3.3	1.0	1	4
Scientific freedom	3.5	1.1	1	4
Technological innovation	3.7	1.2	1	4
Digital rights	3.1	1.0	1	4
Privacy rights	3.3	1.1	1	4
Consumer rights	3.5	1.0	1	4
Environmental protection	3.2	1.1	1	4
Climate change action	3.0	1.0	1	4
Sustainable development	3.4	1.1	1	4
Renewable energy	3.6	1.2	1	4
Urban planning	3.3	1.0	1	4
Public transport	3.1	1.1	1	4
Green buildings	3.5	1.0	1	4
Waste management	3.2	1.1	1	4
Water supply	3.4	1.0	1	4
Sanitation	3.3	1.1	1	4
Food security	3.1	1.0	1	4
Rural development	3.0	1.1	1	4
Agribusiness	3.2	1.0	1	4
Food processing	3.4	1.1	1	4
Food distribution	3.3	1.0	1	4
Food safety	3.5	1.1	1	4
Food quality	3.2	1.0	1	4
Food accessibility	3.1	1.1	1	4
Food affordability	3.0	1.0	1	4
Food sovereignty	3.3	1.1	1	4
Food justice	3.2	1.0	1	4
Food security index	3.4	1.1	1	4
Food security score	3.3	1.0	1	4
Food security rating	3.5	1.1	1	4
Food security level	3.2	1.0	1	4
Food security status	3.1	1.1	1	4
Food security trend	3.0	1.0	1	4
Food security outlook	3.3	1.1	1	4
Food security forecast	3.2	1.0	1	4
Food security projection	3.4	1.1	1	4
Food security assessment	3.3	1.0	1	4
Food security analysis	3.5	1.1	1	4
Food security evaluation	3.2	1.0	1	4
Food security review	3.1	1.1	1	4
Food security audit	3.0	1.0	1	4
Food security inspection	3.3	1.1	1	4
Food security monitoring	3.2	1.0	1	4
Food security reporting	3.4	1.1	1	4

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Table 1. Demographic characteristics of the study population	
Age (years)	65.0 ± 10.0
Gender	
Male	50 (50.0%)
Female	50 (50.0%)
Education (years)	12.0 ± 2.0
Marital status	
Married	40 (80.0%)
Single	10 (20.0%)
Occupation	
Retired	30 (60.0%)
Unemployed	20 (40.0%)
Income (USD/month)	1000.0 ± 200.0
Health status	
Good	40 (80.0%)
Poor	10 (20.0%)
Comorbidities	
Hypertension	20 (40.0%)
Diabetes	10 (20.0%)
Cholesterol	15 (30.0%)
Smoking status	
Smoker	10 (20.0%)
Non-smoker	40 (80.0%)
Alcohol consumption	
Regular	5 (10.0%)
Occasional	15 (30.0%)
Never	30 (60.0%)

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Variable	Mean	SD	Min	Max
Age	34.5	10.2	18	65
Gender	0.5	0.5	0	1
Marital Status	0.6	0.5	0	1
Education	12.5	1.5	9	16
Income	3500	1500	1000	8000
Health Status	0.7	0.4	0	1
Exercise Frequency	2.5	1.5	0	5
Stress Level	4.5	1.5	1	7
Sleep Quality	3.5	1.5	1	5
Diet Quality	3.0	1.5	1	5
Work-Life Balance	3.0	1.5	1	5
Family Support	4.0	1.5	1	5
Community Involvement	2.0	1.5	0	5
Life Satisfaction	4.0	1.5	1	5
Overall Well-being	3.5	1.5	1	5

Variable	Mean	SD	Min	Max
Age	34.5	10.2	18	65
Gender	0.5	0.5	0	1
Marital Status	0.6	0.5	0	1
Education	12.5	1.5	9	16
Income	3500	1500	1000	8000
Health	0.8	0.2	0	1
Smoking	0.3	0.5	0	1
Alcohol	0.2	0.4	0	1
Exercise	0.4	0.5	0	1
Stress	0.6	0.5	0	1
Sleep	0.7	0.3	0	1
Diet	0.5	0.5	0	1
Work	0.8	0.2	0	1
Family	0.6	0.5	0	1
Friends	0.7	0.4	0	1
Hobbies	0.5	0.5	0	1
Travel	0.4	0.5	0	1
Religion	0.6	0.5	0	1
Politics	0.5	0.5	0	1
Environment	0.7	0.4	0	1
Technology	0.8	0.2	0	1
Art	0.3	0.5	0	1
Music	0.4	0.5	0	1
Sports	0.5	0.5	0	1
Gardening	0.3	0.5	0	1
Reading	0.6	0.4	0	1
Writing	0.2	0.4	0	1
Volunteering	0.4	0.5	0	1
Charity	0.3	0.5	0	1
Philosophy	0.5	0.5	0	1
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Chemistry	0.2	0.4	0	1
Biology	0.3	0.5	0	1
Medicine	0.4	0.5	0	1
Law	0.3	0.5	0	1
Business	0.5	0.5	0	1
Engineering	0.4	0.5	0	1
Architecture	0.3	0.5	0	1
Design	0.4	0.5	0	1
Art History	0.3	0.5	0	1
Music History	0.2	0.4	0	1
Sports History	0.3	0.5	0	1
Gardening History	0.2	0.4	0	1
Reading History	0.4	0.5	0	1
Writing History	0.2	0.4	0	1
Volunteering History	0.3	0.5	0	1
Charity History	0.2	0.4	0	1
Philosophy History	0.4	0.5	0	1
Science History	0.5	0.5	0	1
History History	0.3	0.5	0	1
Geography History	0.2	0.4	0	1
Language History	0.4	0.5	0	1
Mathematics History	0.3	0.5	0	1
Physics History	0.2	0.4	0	1
Chemistry History	0.1	0.3	0	1
Biology History	0.2	0.4	0	1
Medicine History	0.3	0.5	0	1
Law History	0.2	0.4	0	1
Business History	0.4	0.5	0	1
Engineering History	0.3	0.5	0	1
Architecture History	0.2	0.4	0	1
Design History	0.3	0.5	0	1
Art History History	0.2	0.4	0	1
Music History History	0.1	0.3	0	1
Sports History History	0.2	0.4	0	1
Gardening History History	0.1	0.3	0	1
Reading History History	0.3	0.5	0	1
Writing History History	0.1	0.3	0	1
Volunteering History History	0.2	0.4	0	1
Charity History History	0.1	0.3	0	1
Philosophy History History	0.3	0.5	0	1
Science History History	0.4	0.5	0	1
History History History	0.2	0.4	0	1
Geography History History	0.1	0.3	0	1
Language History History	0.3	0.5	0	1
Mathematics History History	0.2	0.4	0	1
Physics History History	0.1	0.3	0	1
Chemistry History History	0.0	0.2	0	1
Biology History History	0.1	0.3	0	1
Medicine History History	0.2	0.4	0	1
Law History History	0.1			

Variable	Mean	SD	Min	Max
Age	34.5	10.2	18	65
Gender	0.5	0.5	0	1
Marital Status	0.6	0.5	0	1
Education	12.5	1.5	9	16
Income	3500	1500	1000	8000
Health	0.8	0.2	0	1
Smoking	0.3	0.5	0	1
Alcohol	0.2	0.4	0	1
Exercise	0.4	0.5	0	1
Stress	0.6	0.5	0	1
Sleep	0.7	0.3	0	1
Diet	0.5	0.5	0	1
Work	0.8	0.2	0	1
Family	0.6	0.5	0	1
Friends	0.7	0.4	0	1
Hobbies	0.5	0.5	0	1
Travel	0.4	0.5	0	1
Religion	0.6	0.5	0	1
Politics	0.5	0.5	0	1
Environment	0.7	0.4	0	1
Technology	0.8	0.2	0	1
Art	0.3	0.5	0	1
Music	0.4	0.5	0	1
Sports	0.5	0.5	0	1
Gardening	0.3	0.5	0	1
Reading	0.6	0.4	0	1
Writing	0.2	0.4	0	1
Volunteering	0.4	0.5	0	1
Charity	0.3	0.5	0	1
Philosophy	0.5	0.5	0	1
Science	0.6	0.4	0	1
History	0.4	0.5	0	1
Geography	0.3	0.5	0	1
Language	0.5	0.5	0	1
Mathematics	0.4	0.5	0	1
Physics	0.3	0.5	0	1
Chemistry	0.2	0.4	0	1
Biology	0.3	0.5	0	1
Medicine	0.4	0.5	0	1
Law	0.3	0.5	0	1
Business	0.5	0.5	0	1
Engineering	0.4	0.5	0	1
Architecture	0.3	0.5	0	1
Design	0.4	0.5	0	1
Art History	0.3	0.5	0	1
Music History	0.2	0.4	0	1
Sports History	0.3	0.5	0	1
Gardening History	0.2	0.4	0	1
Reading History	0.4	0.5	0	1
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Charity History	0.2	0.4	0	1
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Language History	0.4	0.5	0	1
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Physics History	0.2	0.4	0	1
Chemistry History	0.1	0.3	0	1
Biology History	0.2	0.4	0	1
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Law History	0.2	0.4	0	1
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Architecture History	0.2	0.4	0	1
Design History	0.3	0.5	0	1
Art History History	0.2	0.4	0	1
Music History History	0.1	0.3	0	1
Sports History History	0.2	0.4	0	1
Gardening History History	0.1	0.3	0	1
Reading History History	0.3	0.5	0	1
Writing History History	0.1	0.3	0	1
Volunteering History History	0.2	0.4	0	1
Charity History History	0.1	0.3	0	1
Philosophy History History	0.3	0.5	0	1
Science History History	0.4	0.5	0	1
History History History	0.2	0.4	0	1
Geography History History	0.1	0.3	0	1
Language History History	0.3	0.5	0	1
Mathematics History History	0.2	0.4	0	1
Physics History History	0.1	0.3	0	1
Chemistry History History	0.0	0.2	0	1
Biology History History	0.1	0.3	0	1
Medicine History History	0.2	0.4	0	1
Law History History	0.1			

Variable	Mean	SD	Min	Max
Age	34.5	10.2	18	65
Gender	0.5	0.5	0	1
Marital Status	0.6	0.5	0	1
Education	12.5	1.5	9	16
Income	3500	1500	1000	8000
Health	0.8	0.2	0	1
Smoking	0.3	0.5	0	1
Alcohol	0.2	0.4	0	1
Exercise	0.4	0.5	0	1
Stress	0.6	0.5	0	1
Sleep	0.7	0.3	0	1
Diet	0.5	0.5	0	1
Work	0.8	0.2	0	1
Family	0.6	0.5	0	1
Friends	0.7	0.4	0	1
Hobbies	0.5	0.5	0	1
Travel	0.4	0.5	0	1
Religion	0.6	0.5	0	1
Politics	0.5	0.5	0	1
Environment	0.7	0.4	0	1
Technology	0.8	0.2	0	1
Art	0.3	0.5	0	1
Music	0.4	0.5	0	1
Sports	0.5	0.5	0	1
Gardening	0.3	0.5	0	1
Reading	0.6	0.4	0	1
Writing	0.2	0.4	0	1
Volunteering	0.4	0.5	0	1
Charity	0.3	0.5	0	1
Philosophy	0.5	0.5	0	1
Science	0.6	0.4	0	1
History	0.4	0.5	0	1
Geography	0.3	0.5	0	1
Language	0.5	0.5	0	1
Mathematics	0.4	0.5	0	1
Physics	0.3	0.5	0	1
Chemistry	0.2	0.4	0	1
Biology	0.3	0.5	0	1
Medicine	0.4	0.5	0	1
Law	0.3	0.5	0	1
Business	0.5	0.5	0	1
Engineering	0.4	0.5	0	1
Architecture	0.3	0.5	0	1
Design	0.4	0.5	0	1
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Music History	0.2	0.4	0	1
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Reading History	0.4	0.5	0	1
Writing History	0.2	0.4	0	1
Volunteering History	0.3	0.5	0	1
Charity History	0.2	0.4	0	1
Philosophy History	0.4	0.5	0	1
Science History	0.5	0.5	0	1
History History	0.3	0.5	0	1
Geography History	0.2	0.4	0	1
Language History	0.4	0.5	0	1
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Medicine History	0.3	0.5	0	1
Law History	0.2	0.4	0	1
Business History	0.4	0.5	0	1
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Architecture History	0.2	0.4	0	1
Design History	0.3	0.5	0	1
Art History History	0.2	0.4	0	1
Music History History	0.1	0.3	0	1
Sports History History	0.2	0.4	0	1
Gardening History History	0.1	0.3	0	1
Reading History History	0.3	0.5	0	1
Writing History History	0.1	0.3	0	1
Volunteering History History	0.2	0.4	0	1
Charity History History	0.1	0.3	0	1
Philosophy History History	0.3	0.5	0	1
Science History History	0.4	0.5	0	1
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Language History History	0.3	0.5	0	1
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Physics History History	0.1	0.3	0	1
Chemistry History History	0.0	0.2	0	1
Biology History History	0.1	0.3	0	1
Medicine History History	0.2	0.4	0	1
Law History History	0.1			

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Glu Lys Ile Phe Cys Gly Gln Ile Trp Pro Val Asp Gln Gln Leu Tyr
210 215 220

Tyr Lys Ser Tyr Phe Leu Phe Ile Phe Gly Ile Glu Phe Val Gly Pro
225 230 235 240

Val Val Thr Met Thr Leu Cys Tyr Ala Arg Ile Ser Arg Glu Leu Trp
245 250 255

Phe Lys Ala Val Pro Gly Phe Gln Thr Glu Gln Ile Arg Lys Arg Leu
260 265 270

Arg Cys Arg Arg Lys Thr Val Leu Val Leu Met Cys Ile Leu Thr Ala
275 280 285

Tyr Val Leu Cys Trp Ala Pro Phe Tyr Gly Phe Thr Ile Val Arg Asp
290 295 300

Phe Phe Pro Thr Val Phe Val Lys Glu Lys His Tyr Leu Thr Ala Phe
305 310 315 320

Tyr Ile Val Glu Cys Ile Ala Met Ser Asn Ser Met Ile Asn Thr Leu
325 330 335

Cys Phe Val Thr Val Lys Asn Asp Thr Val Lys Tyr Phe Lys Lys Ile
340 345 350

Met Leu Leu His Trp Lys Ala Ser Tyr Asn Gly Gly Lys Ser Ser Ala
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Asp Leu Asp Leu Lys Thr Ile Gly Met Pro Ala Thr Glu Glu Val Asp
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<213> Artificial

<220>
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<211> 28
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28

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22

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[illegible]

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5

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 ctggggccag ccggacctgg aggaggcctt ggtgggtgac ccggtcatgt gctgtcaaag 1560
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 35 40 45
 Pro His Leu Ala Tyr Arg Asp Gln Pro His Gly Arg Leu Leu Arg Pro
 50 55 60
 Gly Asn His Gly Glu Gly Arg Asn Gly Asp Thr Phe Leu Leu Ser Val
 65 70 75 80
 Leu Gly Lys Arg Ser Leu Gly Gln Val Ala Glu Gly Gly Asn Glu Arg
 85 90 95
 Gly Val Ser Ser Trp Arg Val Ser Pro Phe Pro Trp Ser Pro Thr Gln
 100 105 110
 Leu Ser Ser Pro Leu Met Trp Gly Gly Ala Gly Gly Met Asp Ser Ala
 115 120 125
 Pro Asp Ser Thr Val Val Val Tyr Arg Gly Ile Arg Arg Glu Ser Glu
 130 135 140
 Gln Asn Thr Leu Leu Gln His Pro Leu Ala Pro Arg Pro Met Met Glu
 145 150 155 160
 Pro Arg Glu Ala Gly Gln His Val Gly Ala Ala Asn Gly Ala Gln Glu
 165 170 175
 Asp Val Ala Phe Asn Leu Ile Ile Leu Ser Leu Thr Glu Gly Leu Gly
 180 185 190
 Leu Gly Gly Leu Leu Gly Asn Gly Ala Val Leu Trp Leu Leu Ser Ser
 195 200 205
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[illegible]

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 <213> Homo sapiens

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 cccacggaag gctcttgagg ccaggtaacc atggggaggg gaggaatggg gacaccttcc 240
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<400> 44

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Gly Leu Gly Leu Gly Gly Leu Leu Gly Asn Gly Ala Val Leu Trp Leu
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Leu Ser Ser Asn Val Tyr Arg Asn Pro Phe Ala Ile Tyr Leu Leu Asp
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Val Ala Cys Ala Asp Leu Ile Phe Leu Gly Cys His Met Val Ala Ile
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Val Pro Asp Leu Leu Gln Gly Arg Leu Asp Phe Pro Gly Phe Val Gln
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Thr Ser Leu Ala Thr Leu Arg Phe Cys Tyr Ile Val Gly Leu Ser Leu
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Leu Ala Ala Val Ser Val Glu Gln Cys Leu Ala Ala Leu Phe Pro Ala
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Trp Tyr Ser Cys Arg Arg Pro Arg His Leu Thr Thr Cys Val Cys Ala
          130          135          140

Leu Thr Trp Ala Leu Cys Leu Leu Leu His Leu Leu Leu Ser Gly Ala
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Cys Thr Gln Phe Phe Gly Glu Pro Ser Arg His Leu Cys Arg Thr Leu
          165          170          175

Trp Leu Val Ala Ala Val Leu Leu Ala Leu Leu Cys Cys Thr Met Cys
          180          185          190

Gly Ala Ser Leu Met Leu Leu Leu Arg Val Glu Arg Gly Pro Gln Arg
          195          200          205

Pro Pro Pro Arg Gly Phe Pro Gly Leu Ile Leu Leu Thr Val Leu Leu
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Phe Leu Phe Cys Gly Leu Pro Phe Gly Ile Tyr Trp Leu Ser Arg Asn
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Leu Leu Trp Tyr Ile Pro His Tyr Phe Tyr His Phe Ser Phe Leu Met
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Ala Ala Val His Cys Ala Ala Lys Pro Val Val Tyr Phe Cys Leu Gly
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caactgcgcg	caaagcccgt	cgtctacttc	tgccctgggca	gtgccagggg	ccgcaggctg		840
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